

TOPOGRAPHIC SURVEY CONTROL POINT RECORD

STATION LONG NAME	MU02
STATION NUMBER	MU02
4 CHAR ID	MU02
COUNTRY	IRAQ
LOCATION	AL MUTHANNA
SURVEYING AGENCY	IGRS
DATE (OF DESCRIPTION)	07 JULY 2005

CONTENTS	YES	NO	NO OF PAGES
FIELD COORDINATE VALUES	X		1
OFFICE COORDINATE VALUES	X		1
STATION MONUMENT & SITE DETAILS	X		1
STATION DIAGRAM	X		1
ACCESS MAP	X		1
ACCESS DESCRIPTION	X		1
APPROACH PHOTOGRAPHS	X		1
CARDINAL POINT PHOTOGRAPHS	X		2

RECORD OF VISITS

DATE OF VISIT	NAME	UNIT	REMARKS

ADDITIONAL DETAILS/ENCLOSURES

CONTENTS	NO OF PAGES

FIELD COORDINATE VALUES

STATION LONG NAME	MU02
4 CHAR ID	MU02
STATION NUMBER	MU02

THIS STATION IS NEW	YES
NEARLY IDENTICAL WITH	N/A

FIELD VALUES FROM THE RECEIVER / HAND HELD GPS – IN WGS84

LATITUDE N	29°28'58.55"
LONGITUDE E	44°21'02.88"
HT (M)	+405
GRID ZONE DESIGNATOR	38R
UTM / MGRS GRID	38R MT 37063 61668
SURVEYING AGENCY	IGRS

FIELD INPUT BY: LCPL AVIS	UNIT: IGRS	DATE: 07 JULY 05
FIELD CHECKED BY: SPR LOCKHART	UNIT: IGRS	DATE: 07 JULY 05

OFFICE COORDINATE VALUES

WGS 84 ADJUSTED VALUES AS AT: 25 Aug 05

LATITUDE N	29° 28' 58.63470''
LONGITUDE E	044° 21' 02.78254''
SPHEROIDAL HT (M)	400.582
EGM96 GEOID MODEL HT (M)	-1.217
ORTHOMETRIC HT (M)	401.799
VERTICAL DATUM	WGS 84
GEOID MODEL USED	EGM 96
RELATIVE TO	CORS STATIONS
RELATIVE POSITION ACCURACY (M)	0.021
RELATIVE HEIGHT ACCURACY (M)	0.022
ADJUSTING AGENCY	OPUS
ADJUSTMENT DATE	25 AUG 2005

LOCAL DATUM VALUES AS AT: 25 Aug 05

SPHEROID	N/A
PROJECTION	N/A
GRID	N/A
VERTICAL DATUM	N/A
LATITUDE N / S	N/A
LONGITUDE E / W	N/A
EASTINGS (M)	N/A
NORTHINGS (M)	N/A
SPHEROIDAL HT (M)	N/A
ORTHOMETRIC HT (M)	N/A
GRID ZONE DESIGNATOR	N/A
TRANSFORMATION AGENCY	N/A
TRANSFORMATION DATE	N/A

GRAVITY VALUE: N/A	TYPE OF STN: N/A	REF: N/A
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AIR PHOTO: N/A	REF: N/A	SCALE: N/A
IMAGERY: N/A	REF: N/A	SCALE: N/A

OFFICE INPUT BY: LCPL COWARD	UNIT: IGRS	DATE: 25 AUG 2005
OFFICE CHECKED BY: LCPL DICKEN	UNIT: IGRS	DATE: 25 AUG 2005

STATION MONUMENT AND SITE DETAILS

STATION LONG NAME: MU02	
STATION NUMBER: MU02	4 CHAR ID: MU02
LOCATION: SOUTH AL MUTHANNA	COUNTRY: IRAQ
STATION ADDRESS: AL TAMEM BORDER FORT	
TEL: N/A	FAX: N/A
LAND OWNER ADDRESS: IRAQ POLICE	
TEL: N/A	FAX: N/A
TYPE OF MARK: HARN	
CONDITION: NEW	
MARK SETTING: FINE POINT	NO OF REBARS: 1

MONUMENT PHOTO / SKETCH



PREPARED BY: LCPL AVIS	UNIT: IGRS	DATE: 07 JULY 05
CHECKED BY: SPR LOCKHART	UNIT: IGRS	DATE: 07 JULY 05

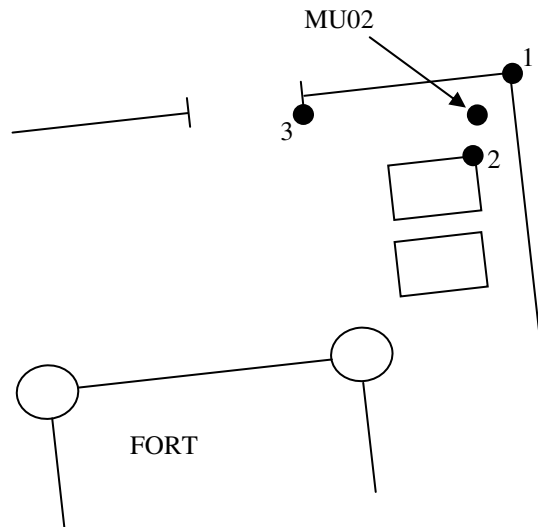
STATION DIAGRAM

STATION LONG NAME: MU02

STATION NUMBER: MU02

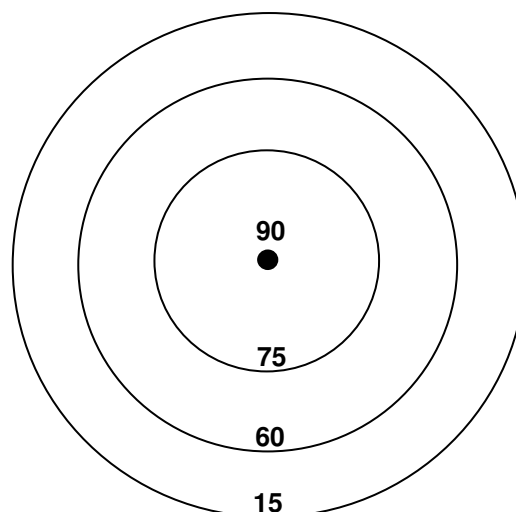
4 CHAR ID: MU02

NOT TO SCALE



NO	DESCRIPTION	BRG/HORZ ANGLE	DISTANCE m
1	N/E CORNER OF COMPOUND (PICKET)	254°	4.5
2	N/E CORNER OF GENERATOR SHELTER	20°	5.2
3	BOTTOM OF GATE WALL	112°	20
4			

OBSCURITY DETAILS



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ACCESS MAP

STATION LONG NAME: MU02

STATION NUMBER: MU02

4 CHAR ID: MU02

MAP DETAILS

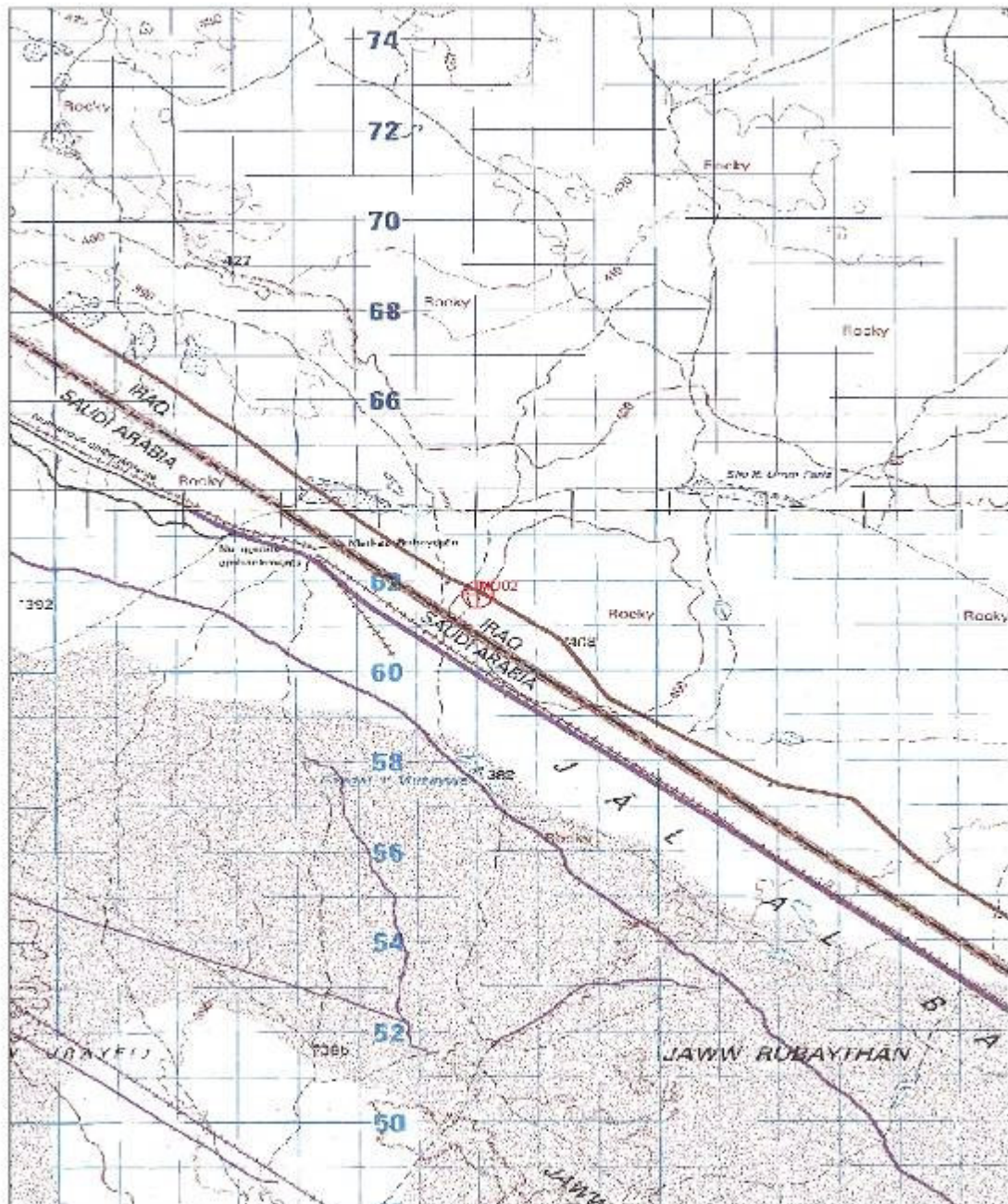
SERIES: K663

SHEET: 4848

EDITION: 2-NIMA

SCALE: 1: 100 000

GR: 38R MT 37063 61668



PREPARED BY: LCPL AVIS

UNIT: IGRS

DATE: 07 JULY 05

CHECKED BY: SPR LOCKHART

UNIT: IGRS

DATE: 07 JULY 05

ACCESS DESCRIPTION

STATION LONG NAME: MU02	
STATION NUMBER: MU02	4 CHAR ID: MU02

MAP DETAILS	SERIES: K663	SHEET: 4848
EDITION: 2-NIMA	SCALE: 1: 100 000	GR: 38R MT 37063 61668

From major road junction West of As Samawah Grid reference NV066 597. Follow metal road South for approximately 213km up to Border Fort name Al Jumymaa at Grid Reference LU 91600 00900. Head South East along the main road running parallel to the Saudi Arabian border for approximately 40km until you reach the Al Tamen border fort. The point is located in the North East corner of the compound.

PREPARED BY: LCPL AVIS	UNIT: IGRS	DATE: 07 JULY 05
CHECKED BY: SPR LOCKHART	UNIT: IGRS	DATE: 07 JULY 05

APPROACH PHOTOGRAPHS

STATION LONG NAME: MU02	
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NEAR APPROACH FACING NORTH



FAR APPROACH FACING NORTH



TAKEN BY: LCPL AVIS	DATE TAKEN: 07 JUL 05
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CARDINAL PHOTOGRAPHS

STATION LONG NAME: MU02

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NORTH



SOUTH



TAKEN BY: LCPL AVIS

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CARDINAL PHOTOGRAPHS

STATION LONG NAME: MU02

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EAST



WEST



TAKEN BY: LCPL AVIS

DATE TAKEN: 07 JUL 05